

Intellectual Property Department 400 Collins Rd. NE M/S 124-323 Cedar Rapids, IA 52498

## Rockwell Collins

 To:
 Mail Stop: Issue Fee
 From:
 Sheila K. Mathews

 Location:
 US Patent Office
 Location:
 124-323

 Fax:
 571-273-2885
 Fax:
 319-295-8777

 Tel:
 Tel:
 319-295-4862

Date:

Applicant: M. Peterson

Serial No. 09/838,486 Filed: April 19, 2001

For: System For Phase Error Estimation For A Quadrature Modulator

3 (including Lead)

Docket No. 00CR020/KE

Item: Issue Fee Transmittal in duplicate.

Thanks.

Pages:

Sheila Mathews

BEST AVAILABLE COPY

October 31, 2005

## \*\*NOTICE TO RECIPIENT\*\*

The documents accompanying this facsimile transmission contain information from the Legal Department of Rockwell Collins, Inc. which is intended only for the use of the individual or entity named in this transmission sheet. Any unintended recipient is hereby notified that the information is privileged and confidential, and any disclosure, reproduction, use or distribution of this information is prohibited. If you are not the intended recipient (or employee or agent responsible for delivery), please notify us by telephone immediately so that we can arrange for the retrieval of the transmitted documents at no cost to you.

IF THERE ARE ANY PROBLEMS WITH THIS TRANSMISSION PLEASE CALL SHEILA MATHEWS (319) 295-8077 (or VPN 295-8077)

	*/-T P P \		OCKWELL COLL			319 295 8	3777 P.02
	Complete and sends	/S/		or <u>I</u>	P.O. Box 1450 Alexandria, Vi	for Patents irginia 22313-1450	
() 8 ii 11	NSTRUCTIONS: This for ppropriate All further of indicated in the company of the c	thould be used for transcription of the second of the seco	ratent, advance or in Block 1, by (a	TE FEE and Indees and notified appearing a	PUBLICATION FEE (if re- fication of maintenance fee- new correspondence addre	equired). Blocks 1 through 5 s will be mailed to the curress; and/or (b) indicating a se	should be completed when nt correspondence address a parate "FEE ADDRESS" fo
-	CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)  7590 08/30/2005				Note: A certificate Fee(s) Transmittal	of mailing can only be used This certificate cannot be used onal paper, such as an assign cate of mailing or transmission	for domestic mailings of the
	ROCKWELL COLLINS, INC. Attention: Kyle Eppelc M/S 124-323 400 Collins Rd. NE					Certificate of Mailing or Tra t this Fee(s) Transmittal is be to with sufficient postage for fail Stop ISSUP FEE addre SPTO (571) 273-2885, on the	nsmission ing deposited with the Unite- first class mail in an cryelop as above, or being facsimile date indicated below.
11/0	Cedar Rapids, IA 5	2498 00025 181722 - 00020	102		Sheila K	Mathews	(Depositor's name)
	1/2005 TBESHAH2 00000025 181722 09838486				Yhulas	X // pitrius	(Signature)
V. 1	C:1501 1400.00 DA			···	October	31, 2005	(Date)
L	APPLICATION NO.	APPLICATION NO. FILING DATE FIRST		FIRST NAMED	INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
T	TILE OF INVENTION: SY	YSTEM FOR PHASE ERRO	OR ESTIMATION		. Peterson DRATURE MODULATOR	00CR020/KE	8926
				FOR A QUAI	DRATURE MODULATOR		
	APPLN. TYPE	SMALL ENTITY	issue pi	FOR A QUAI	DRATURE MODULATOR PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
	APPLN. TYPE	SMALL ENTITY NO	:SSUE FI \$1400	FOR A QUAI	PUBLICATION FEE		
	APPLN. TYPE nonprovisional EXAM	SMALL ENTITY NO INER	ISSUE FI \$1400 ART UNI	FOR A QUAI	PUBLICATION FEE \$0 CLASS-SUBCLASS	TOTAL FEE(S) DUE	DATE DUE
	APPLN. TYPE  Bomprovisional  EXAM  LUGO, D	SMALL ENTITY NO INER IAVID B	ISSUE FI \$1400 ART UNI 2637	FOR A QUAI	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
[. [.	APPLN. TYPE nonprovisional  EXAM LUGO, D  Change of correspondence PR 1.363).  Change of correspondence PR 1.763).  The correspondence PR 1.763 indicate  The correspondence PR 1.763 indicate Provisional indicate  The correspondence  The correspon	SMALL ENTITY NO INER	ISSUE FI \$1400 ART UNI 2637 ee Address" (37 Correspondence	EE  2. For print (1) the nam or agents O (2) the nam registered a 2 registered	PUBLICATION FEE \$0 CLASS-SUBCLASS	TOTAL FEE(S) DUE \$1400  list tent attorneys 1 Nathan	DATE DUE 11/30/2005 0. Jensen
[ ]	APPLN. TYPE nonprovisional  EXAM LUGO, D  Change of correspondence PR 1.363).  Change of correspondence PR 1.363).  The correspondence PR 1.363,  Change of correspondence Address form PTO/SB/12  The correspondence PTO/SB/47; Rev 03-02 o  Number is required.  ASSIGNEE NAME AND	SMALL ENTITY NO INER AVID B  address or indication of "Formor address (or Change of 2) attached, ion (or "Fee Address" Indication (or "Fee Address" Indication (or "Fee Endergo" Indication (o	SSUE FI \$1400 ART UNI 2637 ee Address" (37 Correspondence ation form e of a Customer E PRINTED ON T	2. For print (1) the narror agents O (2) the name of agents of age	PUBLICATION FEE  \$0  CLASS-SUBCLASS  375-346000  ing on the patent front page, as of up to 3 registered parR, alternatively, as of a single furn (having a uttorney or agent) and the nil patent attorneys or agents, and will be printed.  (print or type)	S1400  S1400  List tent attorneys 1 Nathan 2 Kyle E ames of up to 1f no name is 3	DATE DUE 11/30/2005  0. Jensen ppele
[ ]	APPLN. TYPE  numprovisional  EXAM  LUGO, D  Change of correspondence FR 1.363).  Change of correspond Address form PTO/SB/12  "Fee Address" indicati PTO/SB/47; Rev 03-02 o  Number is required.  ASSIGNEE NAME AND PLEASE NOTE: Unless recordation as set forth in	SMALL ENTITY NO INER PAVID B  address or indication of "Feeting address for Change of 2) attached. ion (or "Feet Address" Indication for "Feet Address" Indication for "Feet Address" Indication for "Feet Address" Indication for "Feeting attached. Use the statement of the Indication of Ind	ssue Fi \$1400 ART UNI 2637 ee Address" (37 Correspondence ation form e of a Customer E PRINTED ON T slow, no assignee cof this form is NOT	2. For print (1) the nam or agents O (2) the nam registered a 2 registered inted, no no HE PATENT data will apper a substitute for	PUBLICATION FEE  \$0  CLASS-SUBCLASS  375-346000  ing on the patent front page, les of up to 3 registered park, alternatively, et of a single firm (having a stomey or agent) and the nit patent attorneys or agents. are will be printed.  (print or type)  ar on the patent. If an assion filling an assignment.	TOTAL FEE(S) DUE \$1400  Signature of up to If no name is 3  gnee is identified below, the	DATE DUE 11/30/2005  0. Jensen ppele
[ ]	APPLN. TYPE nonprovisional  EXAM LUGO, D  Change of correspondence PR 1.363).  Change of correspondence PR 1.363).  The correspondence PR 1.363,  Change of correspondence Address form PTO/SB/12  The correspondence PTO/SB/47; Rev 03-02 o  Number is required.  ASSIGNEE NAME AND	SMALL ENTITY NO INER AVID B  address or indication of "Formor address (or Change of 2) attached. ion (or "Fee Address" Indicate more recent) attached. Use RESIDENCE DATA TO B an assignee is identified be 37 CFR 3.11. Completion of	ssue Fi \$1400 ART UNI 2637 ee Address" (37 Correspondence ation form e of a Customer E PRINTED ON T slow, no assignee cof this form is NOT	2. For print (1) the name or agents O (2) the name or agents O (2) the name or agents of the name of t	PUBLICATION FEE  \$0  CLASS-SUBCLASS  375-346000  ing on the patent front page, as of up to 3 registered parR, alternatively, as of a single furn (having a uttorney or agent) and the nil patent attorneys or agents, and will be printed.  (print or type)	TOTAL FEE(S) DUE \$1400  Signature of up to If no name is 3  gnee is identified below, the	DATE DUE 11/30/2005  0. Jensen ppele
1. Car	APPLN. TYPE  nonprovisional  EXAM  LUGO, D  Change of correspondence PR 1.363).  Change of correspond  Address form PTO/SB/12  "Fee Address" indicati  FTO/SB/47; Rev 03-02 o  Number is required.  ASSIGNEE NAME AND  PLEASE NOTE: Unless recordation as set forth in  (A) NAME OF ASSIGNE  Rockwell C	SMALL ENTITY  NO  INER  PAVID B  address or indication of "Former address (or Change of 2) attached ion (or "Fee Address" Indicate more recent) attached. Use RESIDENCE DATA TO B an assignee is identified be 37 CFR 3.11. Completion (SE	ART UNI  2637  ee Address" (37  Courespondence  atiom form  e of a Customer  E PRINTED ON T  clow, no assignee cof this form is NOT  (B)	2. For print (1) the narror agents O (2) the name registered a 2 registered listed, no nate of the partial of t	PUBLICATION FEE  \$0  CLASS-SUBCLASS  375-346000  ing on the patent front page, the sof up to 3 registered partitionary or agent) and the nit patent attorneys or agents, arte will be printed.  (print or type) ar on the patent. If an assi or filing an assignment.  E: (CITY and STATE OR CRAPTES, IA	s a member a ames of up to If no name is 3	DATE DUE 11/30/2005  0. Jensen ppele  document has been filed for
	APPLN. TYPE  nonprovisional  EXAM  LUGO, D  Change of correspondence PR 1.363).  Change of correspond  Address form PTO/SB/12  "Fee Address" indicati  FTO/SB/47; Rev 03-02 o  Number is required.  ASSIGNEE NAME AND  PLEASE NOTE: Unless recordation as set forth in  (A) NAME OF ASSIGNE  Rockwell C	SMALL ENTITY  NO  INER  AVID B  address or indication of "Formor address (or Change of 2) attached.  ion (or "Fee Address" Indicator more recent) attached. Use  RESIDENCE DATA TO B an assignee is identified be 37 CFR 3.11. Completion of 38  collins  assignee category or category	ssue Fi \$1400 ART UNI 2637  ee Address" (37  Correspondence ation form of a Customer  E PRINTED ON T  clow, no assignee cof this form is NOT  (B)	2. For print (1) the narror agents O (2) the name registered a 2 registered listed, no nate of the partial of t	PUBLICATION FEE  \$0  CLASS-SUBCLASS  375-346000  ing on the patent front page, as of up to 3 registered part, alternatively, as of a single farm (having a littoney or agent) and the nil patent attorneys or agents, and will be printed.  (print or type)  ar on the patent. If an assion filing an assignment.  E: (CITY and STATE OR CRAPICS. IA	TOTAL FEE(S) DUE \$1400  Signature of up to If no name is 3  gnee is identified below, the	DATE DUE 11/30/2005  0. Jensen ppele  document has been filed for

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government 4a. The following fee(s) are enclosed:  4b. Payment of Fee(s):  A check in the amount of the fee(s) is enclosed.  Payment by credit card. Form PTO-2038 is attached.  Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 18-1722 by charge the required fee(s), or credit any overpayment, to Deposit Account Number 18-1722 by charge the required fee(s), or credit any overpayment, to Deposit Account Number 18-1722 by charge the required fee(s).  A applicant claims SMALL ENTITY status. See 37 CFR 1.27.  The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-amply any previously paid issue fee to the application identified above.  NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United Spates Patent and Trademark Office.	Rockwell Collins	Cedar Rapids, IA
4a. The following fee(s) are enclosed:  4b. Payment of Fee(s):  A check in the amount of the fee(s) is enclosed.  Publication Fee (No small entity discount permitted)  Advance Order - # of Copies  The Director is hereby sutherized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 18-1722 (enclose an extra copy of this form).  5. Change in Entity Status (from status indicated above)  A check in the amount of the fee(s) is enclosed.  Payment by credit card. Form PTO-2038 is attached.  The Director is hereby sutherized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 18-1722  S. Change in Entity Status (from status indicated above)  A check in the amount of the fee(s) is enclosed.  Payment by credit card. Form PTO-2038 is attached.  S. Change in Entity Status (from status indicated above)  B. Applicant claims SMALL ENTITY status. See 37 CFR 1.27(g)(2).  The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to reapply any previously paid issue fee to the application identified above.	Please check the appropriate assignee category or categories (will not be	e printed on the patent): 🔲 Individual 🚨 Corporation or other private group entity 🖵 Government
5. Change in Entity Status (from status indicated above)  a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.  b. Applicant is no longer claiming SMALL ENTITY status. Sec 37 CFR 1.27(g)(2).  The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.	☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies	4b. Payment of Fee(s):  A check in the amount of the fee(s) is enclosed.  Payment by credit card. Form PTO-2038 is attached.
	☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.  The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if required) will not be seen	b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).
Authorized Signature    Date   Date	Authorized Signature   Kyle Eppele  This collection of information is required by 37 CFR 1.311. The information is required by 37 CFR 1.311.	Date Och 31, 0005  Registration No. 34, 155  About is required to obtain or retain a benefit by the mublic which is to file (and by the USETO to recease)

an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require in complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Irademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.